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SIM Configuration Overview

SIMSWG - 4

Dr. Kim Aaron
Precision Structure Architect

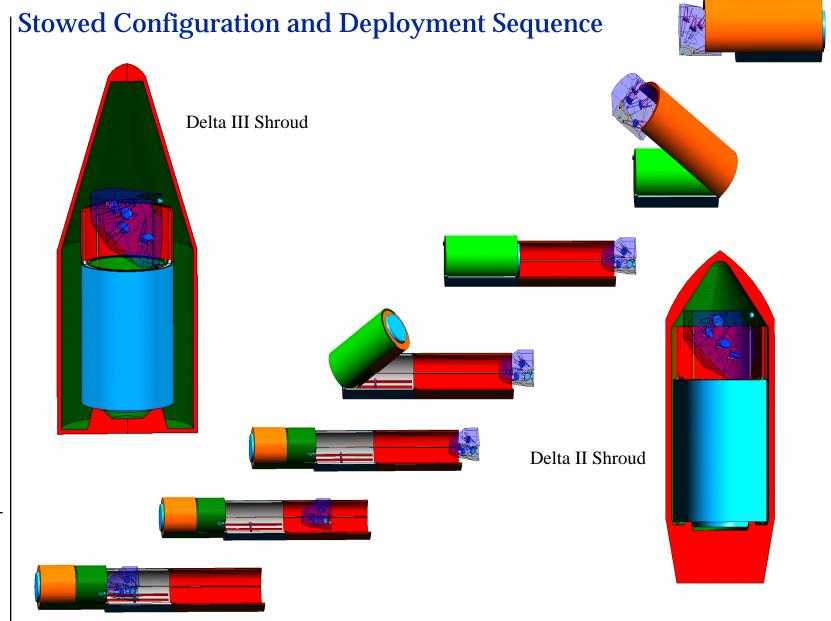
April 23, 1998

Outline

- Artist's Concept Deployed Configuration
 - Stowed Configuration and Deployment Sequence
 - Video (unless it's already been shown)
 - Collector Layout
 - Features

Artist's Concept (Craig Attebery) Space Interferometry Mission

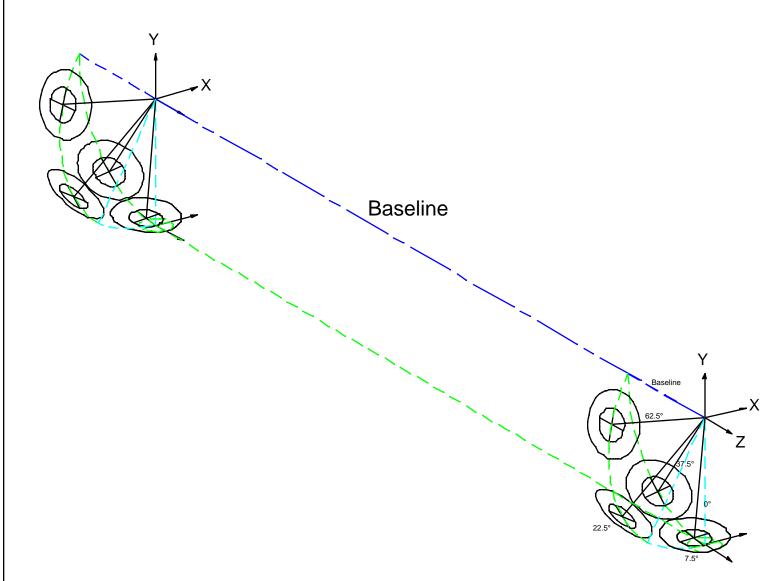
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Collector Layout in Both Pods

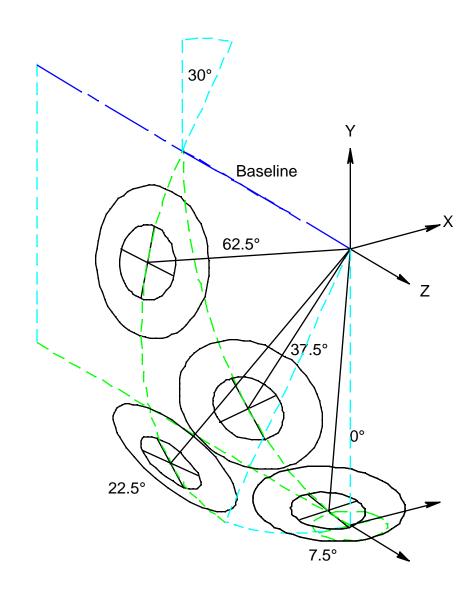
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Layout of Collectors within a Pod

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Features

- 0.5 m to 10.7 m astrometric baseline
 - Move pods (Track and Trolley)
 - Tilt collectors to foreshorten
- Non-overlapping Fields or Regard
- Fixed Curved Solar Array
 - Partially populated with Optical Solar Reflectors (OSRs)
 - Abundant power in most orientations
 - Use secondary batteries to augment non-favorable attitudes
 - Thermally isolated from Precision Structure
- Thermal Control
 - Low CTE materials
 - Significant Insulation
 - Thermostatically controlled heaters
- Structure
 - Graphite / Polycyanate Half-shell
 - Precision Latching for Primary Deployments